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; TITLE OF INVENTION: DNA Expression Systems Based on
; TITLE OF INVENTION: Alphaviruses
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/920,281C
; FILING DATE: 13-AUG-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 828-103P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11517 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: RNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Semliki Forest Virus
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..11517
; OTHER INFORMATION: /label= genome
; OTHER INFORMATION: /note= "Semliki Forest Virus complete nucleotide
; OTHER INFORMATION: sequence, presented as a cloned DNA sequence; see
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 87..7379
; OTHER INFORMATION: /product= "sfv polypeptide"
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; NAME/KEY: CDS
; LOCATION: 7421..11179
; OTHER INFORMATION: /product= "sfv polypeptide"
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; US-07-920-281C-1

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    Ratio: 3.538        Gaps: 0
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seq_name: /cgn2_6/plodata/2/lna/6B_COMB.seq:US-08-466-277-1
seq_documentation_block:

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; Sequence 1, Application US/08466277
; Patent No. 6190666
; GENERAL INFORMATION:
; APPLICANT: Garoff, Henrik
; TITLE OF INVENTION: DNA Expression Systems Based on
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,277
; FILING DATE: 06-Jun-1995
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/920,281
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 828-103P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11517 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: RNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Semliki Forest Virus
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..11517
; OTHER INFORMATION: /label= genome
; OTHER INFORMATION: /note= "Semliki Forest Virus complete nucleotide
; OTHER INFORMATION: sequence, presented as a cloned DNA sequence; see
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 87..7379
; OTHER INFORMATION: /product= "sfv polypeptide"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 7421..11179
; OTHER INFORMATION: /product= "sfv polypeptide"
; OTHER INFORMATION: /product= "sfv polypeptide"
; US-08-466-277-1

alignment_scores:
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    Percent Similarity: 92.857    Percent Identity: 50.000

alignment_block:
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1 STREET: 7 Skyline Drive
2 CITY: Hawthorne
3 STATE: NY
4 COUNTRY: USA
5 ZIP: 10532
6
7 COMPUTER READABLE FORM:
8 MEDIUM TYPE: Floppy disk
9 COMPUTER: IBM PC compatible
10 OPERATING SYSTEM: PC-DOS/MS-DOS
11 SOFTWARE: Patent Release #1.0, Version #1.30B
12 CURRENT APPLICATION DATA:
13 APPLICATION NUMBER: US/08/496,944
14 FILING DATE:
15 CLASSIFICATION: 435
16 ATTORNEY/AGENT INFORMATION:
17 NAME: Elmer, James Scott
18 REGISTRATION NUMBER: 36,129
19 REFERENCE/DOCKET NUMBER: CGC 1814
20 INFORMATION FOR SEQ ID NO: 1:
21 SEQUENCE CHARACTERISTICS:
22 LENGTH: 8543 base pairs
23 TYPE: nucleic acid
24 STRANDEDNESS: single
25 TOPOLOGY: linear
26 MOLECULE TYPE: RNA (genomic)
27 HYPOTHEITICAL: NO
28 FEATURE:
29 NAME/KEY: CDS
30 LOCATION: 3..8291
31 OTHER INFORMATION: /product= "polyprotein encoded b
32 OTHER INFORMATION: MDMV-B genome"
33 FEATURE:
34 NAME/KEY: 3'UTR
35 LOCATION: 8292..8530
36 FEATURE:
37 NAME/KEY: misc_RNA
38 LOCATION: 3..1133
39 OTHER INFORMATION: /product= "3-prime sequence for
40 OTHER INFORMATION: HC-Pro"
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44 OTHER INFORMATION: /product= "P3 proteinase"
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49 OTHER INFORMATION: protein"
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51 NAME/KEY: misc_RNA
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53 OTHER INFORMATION: /product= "K2 (6kD protein)"
54 FEATURE:
55 NAME/KEY: misc_RNA
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57 OTHER INFORMATION: /product= "N1a proteinase"
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63 NAME/KEY: misc_RNA
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70 Ratio: 3.071 Gaps: 0
71 Percent Similarity: 87.500 Percent Identity: 43.750
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73 alignment_block:

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US-08-978-217-12 x US-08-496-944-1  ..
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seq_name: /cgn2/6/ptodata/2/1na/5B_COMB.seq:US-08-537-400-15

seq_documentation_block:
Sequence 15, Application US/08537400
Patent No. 5939301
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Cloned DNA Polymerases From Thermotoga
TITLE OF INVENTION: neapolitana And Mutants Thereof
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSER: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
STREET: 1100 New York Avenue, N.W., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/537,400
FILING DATE: 02-OCT-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/316,423
FILING DATE: 30-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/370,190
FILING DATE: 09-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Esmond, Robert W.
REGISTRATION NUMBER: 32,893
REFERENCE/DOCKET NUMBER: 0942.2800002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 694 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: both
FEATURE:
NAME/KEY: CDS
LOCATION: 2..694
US-08-537-400-15

alignment_scores:
Quality: 42.00 Length: 12
Ratio: 3.818 Gaps: 0
Percent Similarity: 91.667 Percent Identity: 50.000

alignment_block:
US-08-978-217-12 x US-08-537-400-15  ..
Align seg 1/1  to: US-08-537-400-15  from: 1  to: 694

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seq_documentation_block:
; Sequence 17, Application US/08706702
; Patent No. 5948614
; GENERAL INFORMATION:
; APPLICANT: Chatterjee, Deb K.
; TITLE OF INVENTION: Cloned DNA Polymerases from Thermotoga
; TITLE OF INVENTION: maritima and Mutants Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/706,702
; FILING DATE: 06-SEP-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/689,807
; FILING DATE: 14-AUG-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/537,400
; FILING DATE: 02-OCT-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/576,759
; FILING DATE: 21-DEC-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/537,397
; FILING DATE: 02-OCT-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/525,057
; FILING DATE: 08-SEP-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Esmond, Robert W.
; REGISTRATION NUMBER: 32,893
; REFERENCE/DOCKET NUMBER: 0942.2800006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 694 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 2..691
; US-08-706-702-17
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Percent Similarity: 91.667 Percent Identity: 50.000

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seq_name: /cgn2_6/ptodata/2/ina/6A_COMB.seq:us-08-706-706-17

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seq_documentation_block:
; Sequence 17, Application US/08706706
; Patent No. 6015668
; GENERAL INFORMATION:
; APPLICANT: Hughes, A. John
; TITLE OF INVENTION: Cloned DNA Polymerases from Thermotoga and
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 New York Ave., N.W., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/706,706
; FILING DATE: 06-SEP-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/689,807
; FILING DATE: 14-AUG-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/537,400
; FILING DATE: 02-OCT-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/370,190
; FILING DATE: 01-JAN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/316,423
; FILING DATE: 30-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/576,759
; FILING DATE: 21-DEC-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/537,397
; FILING DATE: 02-OCT-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Esmond, Robert W.
; REGISTRATION NUMBER: 32,893
; REFERENCE/DOCKET NUMBER: 0942.2800005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 694 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: both
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Quality: 42.00 Length: 12
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Percent Similarity: 91.667 Percent Identity: 50.000

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seq_name: /cgn2_6/ptodata/2/lna/6A_COMB.seq:US-08-484-661A-38

seq_documentation_block:

; Sequence 38, Application US/08484661A

; Patent No. 6001645

; GENERAL INFORMATION:

; APPLICANT: SLATER, MICHAEL R.

; APPLICANT: HARTNETT, JAMES R.

; APPLICANT: HUANG, FEN

; APPLICANT: BOLCHAKOVA, ELENA

; TITLE OF INVENTION: MODIFIED THERMOPHILIC DNA POLYMERASES

; TITLE OF INVENTION: FROM THERMOTOGA NEAPOLITANA

; NUMBER OF SEQUENCES: 51

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MEDLEN & CARROLL

; STREET: 220 MONTGOMERY STREET, SUITE 2200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: UNITED STATES OF AMERICA

; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/484,661A

; FILING DATE: 07-JUN-1995

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: INGOLIA, DIANE E.

; REGISTRATION NUMBER: 40,027

; REFERENCE/DOCKET NUMBER: PRMG-01175

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 705-8410

; TELEFAX: (415) 397-8338

; INFORMATION FOR SEQ ID NO: 38:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1485 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 1..1482

US-08-484-661A-38

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Quality: 42.00 Length: 12

Ratio: 3.818 Gaps: 0

Percent Similarity: 91.667 Percent Identity: 50.000

alignment_block:

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seq_name: /cgn2_6/ptodata/2/lna/6A_COMB.seq:US-08-656-664-38

seq_documentation_block:

; Sequence 38, Application US/08656664

; Patent No. 6077664

; GENERAL INFORMATION:

; APPLICANT: Slater, Michael R.

; APPLICANT: Huang, Fen

; APPLICANT: Hartnett, James R.

; APPLICANT: Bolchakova, Elena

; APPLICANT: Storts, Douglas R.

; APPLICANT: Otto, Paul

; TITLE OF INVENTION: THERMOPHILIC DNA POLYMERASES FROM

; TITLE OF INVENTION: THERMOTOGA NEAPOLITANA

; NUMBER OF SEQUENCES: 57

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Medlen & Carroll

; STREET: 220 Montgomery Street, Suite 2200

; CITY: San Francisco

; STATE: California

; COUNTRY: United States of America

; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/656,664

; FILING DATE: 31-MAY-1996

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Ingolia, Diane E.

; REGISTRATION NUMBER: 40,027

; REFERENCE/DOCKET NUMBER: PRMG-02185

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 705-8410

; TELEFAX: (415) 397-8338

; INFORMATION FOR SEQ ID NO: 38:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1485 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

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; FEATURE:

; NAME/KEY: CDS

; LOCATION: 1..1482

US-08-656-664-38

alignment_scores:

Quality: 42.00 Length: 12

Ratio: 3.818 Gaps: 0

Percent Similarity: 91.667 Percent Identity: 50.000

alignment_block:

US-08-978-217-12 x US-08-656-664-38 ..

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seq_documentation_block:

; Sequence 38, Application PC/TUS9609641

; GENERAL INFORMATION:

; APPLICANT: Slater, Michael R.

; APPLICANT: Huang, Fen

; APPLICANT: Hartnett, James R.


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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/656,664
FILING DATE: 31-MAY-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Ingolla, Diane E.
REGISTRATION NUMBER: 40, 027
REFERENCE/DOCKET NUMBER: PRG-02185
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 705-8410
TELEFAX: (415) 397-8338
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 1716 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1713
US-08-656-664-36

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	alignment_scores:	
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Ratio:	3.818	Gaps: 0
Percent Similarity:	91.667	Percent Identity: 50.000

alignment_block

US-08-978-217-12 x US-08-6556-664-36

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seq_name: /cgn2_6/ptodata/2/lna/PCTUS_COMB.seq:PCT-US96-09641-36

seq_documentation_block:

Sequence 36, Application PC/TUS96096411

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; GENERAL INFORMATION:
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; APPLICANT: Slater Michael B

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APPLICANT: Slater, Michael R.
APPLICANT: Huang, Fen

APPLICANT: Hartnett, James B.

APPLICANT: Bolchakova, Elena

APPLICANT: Storts, Douglas R.

APPLICANT: Otto, Paul

THERMOPHILIC DNA POLYM

TITLE OF INVENTION: THE
NUMBER OF SENTENCES. 57

NUMBER OF SEQUENCES: 57
CORRESPONDENCE ADDRESS:

CORRESPONDENCE ADDRESS:
ADDRESSEE: Medlen & Carroll)

STREET: 220 Montgomery Street, Suite 2200

CITY: San Francisco

STATE: California

COUNTRY: United States Of America

ZIP: 94104

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

1 CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US96/09641

FILING DATE: 31-MAY-1996

CLASSIFICATION:

NAME: Ingrida Diane E
; JOURNEY/AGENCY INFORMATION:
;

NAME: Ingold, Diane E.
REGISTRATION NUMBER: 40,027

REFERENCE/DOCKET NUMBER: PRMG-02185

TELECOMMUNICATION INFORMATION:

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1 TELEPHONE: (415) 705-8410
2
3 TELEFAX: (415) 397-8338
4
5 INFORMATION FOR SEQ ID NO: 36
6
7     SEQUENCE CHARACTERISTICS
8
9     LENGTH: 1716 base pairs
10    TYPE: nucleic acid
11    STRANDEDNESS: double
12
13    TOPOLOGY: linear
14
15    MOLECULE TYPE: DNA (genomic)
16
17    FEATURE:
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19    NAME/KEY: CDS
20    LOCATION: 1..1713
21
22    PCT-US96-09641-36

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alignment_scores:	
Quality:	42.00
Ratio:	3.818
Percent Similarity:	91.667
	Length: 12
	Gaps: 0
Percent Identity:	50.000

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alignment_block:
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US-08-978-217-12 x PCT-US96-09641-36

Align seg 1/1 to: PCT-US96-09641-36 from: 1 to: 1716

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1181 ACAGATCCACCCCTCCAGACATCCACACCTCCAC 1236

1191 AGAAATGCGACGGGTGGGAAGATGGTGAACCTTC 1226
